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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/622,296	07/17/2003	Mikko Petteri Alasaarela	045A.0001.U1(US)	7265
29683	7590 04/07/2005		EXAM	INER
HARRINGTON & SMITH, LLP 4 RESEARCH DRIVE			DOWLING, WILLIAM C	
SHELTON, CT 06484-6212			ART UNIT	PAPER NUMBER
			2851	
			DATE MAILED: 04/07/2005	5

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	
Office Action Commence	10/622,296	ALASAARELA ET AL.	
Office Action Summary	Examiner	Art Unit	
TI MAN INO DATE AND A STATE OF THE STATE OF	William C. Dowling	2851	
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet wi	th the correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a rep. If NO period for reply is specified above, the maximum statutory period. Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a rolly within the statutory minimum of thirt will apply and will expire SIX (6) MON e, cause the application to become AB	eply be timely filed y (30) days will be considered timely. THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).	
Status	,		
Responsive to communication(s) filed on 17 J This action is FINAL . 2b) ☐ This 3) ☐ Since this application is in condition for allowed closed in accordance with the practice under	s action is non-final. ance except for formal matt		
Disposition of Claims			
4) Claim(s) 1-43 is/are pending in the application 4a) Of the above claim(s) is/are withdra 5) Claim(s) is/are allowed. 6) Claim(s) 1-43 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/o	awn from consideration.		
Application Papers			
9) The specification is objected to by the Examin 10) The drawing(s) filed on 17 July 2003 is/are: a Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the)⊠ accepted or b)⊡ objece e drawing(s) be held in abeyar ction is required if the drawing	ce. See 37 CFR 1.85(a). (s) is objected to. See 37 CFR 1.121(d).	
Priority under 35 U.S.C. § 119		*	
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureat * See the attached detailed Office action for a list	nts have been received. Its have been received in A prity documents have been au (PCT Rule 17.2(a)).	pplication No received in this National Stage	
Attachment(s)	_		
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date 61404. 	Paper No(s	Summary (PTO-413) s)/Mail Date nformal Patent Application (PTO-152) 	

Application/Control Number: 10/622,296

Art Unit: 2851

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- 2. Claims 1-5, 9-11, 13-20, 24-26, 28-34, 37-43 are rejected under 35 U.S.C. 102(a) as being anticipated by Holman et al.

Holman et al. disclose an illumination system for use in image projectors comprising:

microdisplays to be illuminated (Figs. 43, 45, 46), which may be LCD's, DMD's:

red, blue and green LED chips (20);

a beam-forming component formed of reflective sidewalls (2) and a patterned refractive prism sheets (4, 6) for refracting light from the chips and outputting a shaped and uniform beam of light;

an optical component (308, Fig 43) between the beam forming component and the display consisting of a lens;

an optical component (1364 fig. 43) between the display and the focusing unit consisting of an X-cube.

Refractive material (101) may be used in the beam-forming component.

Entendue is preserved and light loss is reduced.

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Art Unit: 2851

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 6-8, 12, 21-23, 27, 35-36 are rejected under 35 U.S.C. 103(a) as being unpatentable over Holman et al in view of Lee.

Holman et al. discloses the invention substantially as claimed but does not specify the use of the illumination source within a stereoscopic imaging system. It is well known within the art to separate light into orthogonal polarizations for illumination of two separate panels and projecting a polarized pair of images for viewing with polarized glasses. Lee gives an example of such a system.

It would have been obvious to one skilled in the art at the time of the invention to modify the invention of Holman et al. to utilize the illumination source within any of known LCD/DMD projection systems, such as in one taught by Lee, because such modification amounts to the substitution of one type of light source for another.

As to claim 8 and 23, Holman et al. discuss the advantage of matching the refractive indices of the surrounding material (101) and the light containing medium (122). This would obviously suggest a close match between these elements. The choice of wavelengths for the light sources is an obvious operational choice dependent on the image parameters desired.

5. Any inquiry concerning this-communication or earlier communications from the examiner should be directed to William C. Dowling whose telephone number is 571-272-2116. The examiner can normally be reached on MON-TUES, THURS-FRI.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Judy Nguyen can be reached on 571-272-1750. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

wcd

William Dowling Primary Examiner